

Service Manual

Radio

RF-B50L

(for F.R. Germany)

FM-MW-LW-SW1~7
10-Band Portable Radio

- Please use this manual together with the service manual for model No. RF-B50L order No. RD83095388C2.
- This Service Manual indicates the main differences between; Original RF-B50L and RF-B50L for F.R. Germany.

■ SPECIFICATIONS COMPARISON TABLE

Specification	RF-B50L	RF-B50L (For F.R. Germany)
Antenna	EXT Antenna; FM 75Ω LW, SW1~7 High Impedance	—

■ PARTS COMPARISON TABLE

Ref. No.	Part Name & Description	Part Number		Pcs/ Set	Remarks
		RF-B50L	RF-B50L (for F.R. Germany)		
L8	Oscillator Coil, FM	RLO4N183	RLO4N179	1	
L8	Oscillator Coil, FM (for United Kingdom)	RLO4N169	—		Deleted
CF2	Ceramic Filter (for United Kingdom)	RVFSFP462I	—		Deleted
CF3	Ceramic Filter (for United Kingdom)	RVFSFP462G5	—		Deleted
K1	Front Cabinet Ass'y	RYMFB50LXG8	RYMFB50LXGZ8	1	
K2	Rear Cabinet Ass'y	RYFFB50LXG	RYFFB50LXGZ	1	
K2	Rear Cabinet Ass'y (for United Kingdom)	RYFFB50LXE	—		Deleted
R16	Chip 1/8 W, 1 kΩ	RRD18XJ122	RRD18XJ102	1	
C31	Chip 50 V, 27 pF	ECUX1H220KC	ECUX1H270KC	1	

Panasonic

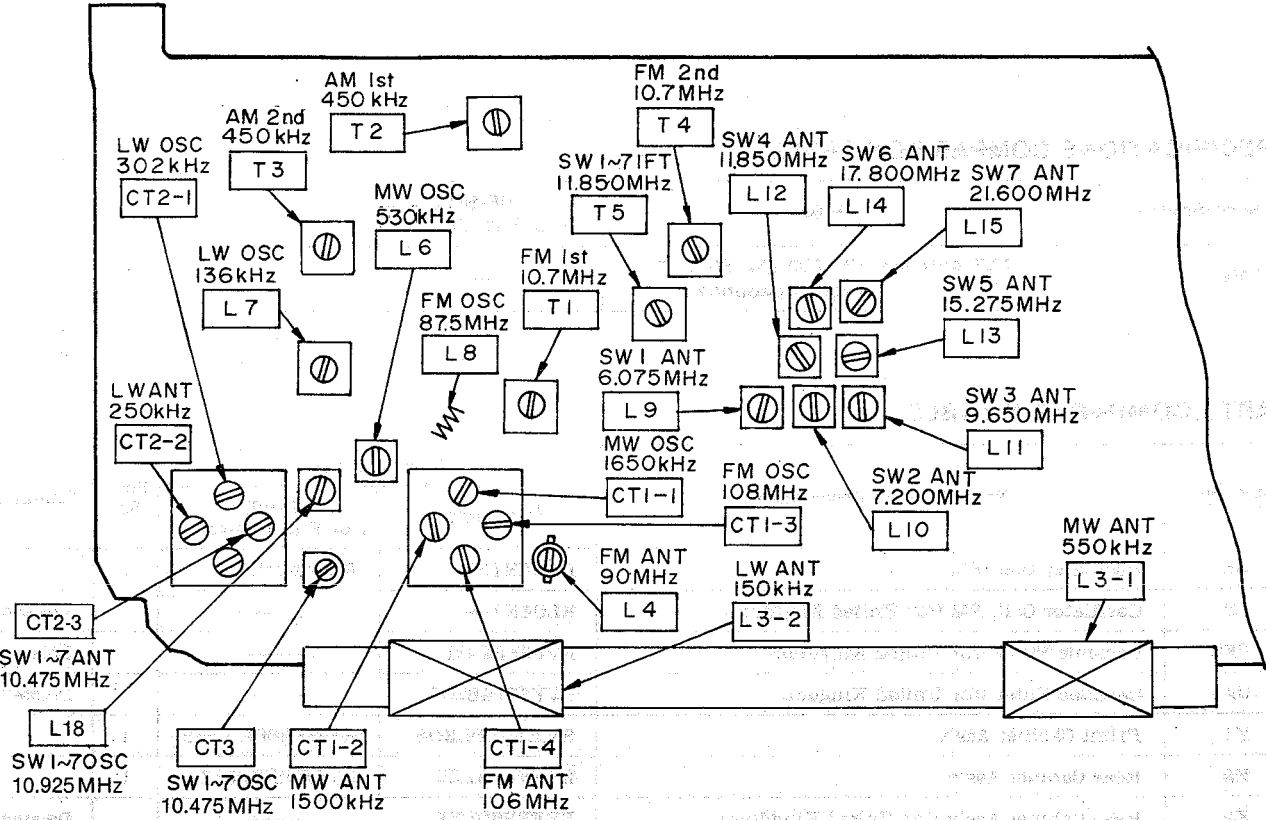
Matsushita Electric Trading Co., Ltd.
P.O. Box 288, Central Osaka Japan

FM-RF ALIGNMENT

BAND	SIGNAL GENERATOR or SWEEP GENERATOR		RADIO DIAL SETTING	INDICATOR (ELECTRONICS VOLTMETER or SCOPE)	ADJUSTMENT	REMARKS
	CONNECTIONS	FREQUENCY				
FM-RF ALIGNMENT						
FM	Connect to test point▼ through FM dummy antenna. Negative side to test point ▼.	87.5MHz	Variable capacitor fully closed.	Output meter across voice coil.	L8 (FM OSC Coil)	(*4) Adjust for maximum output.
FM		108MHz	Variable capacitor fully open.	"	CT1-3 (FM OSC Trimmer)	"
FM		90MHz	Tune to signal.	"	L4 (FM ANT Coil)	"
FM		106MHz	"	"	CT1-4 (FM ANT Trimmer)	(*4) Adjust for maximum output. Repeat steps (22)~(25).
(*4) Three output responses will be present; proper tuning is the center frequency.						

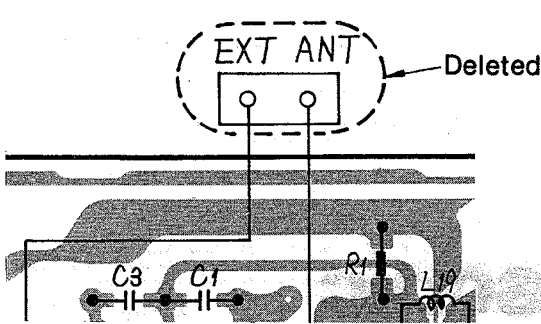
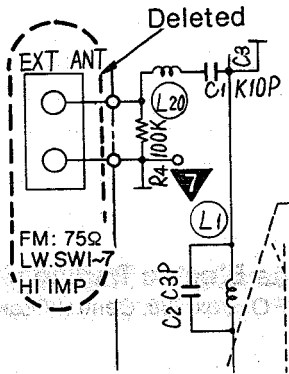
ALIGNMENT POINTS

Please refer to Circuit Board and Wiring Connection Diagram which is located test point.



SCHEMATIC DIAGRAM

CIRCUIT BOARD AND WIRING CONNECTION DIAGRAM

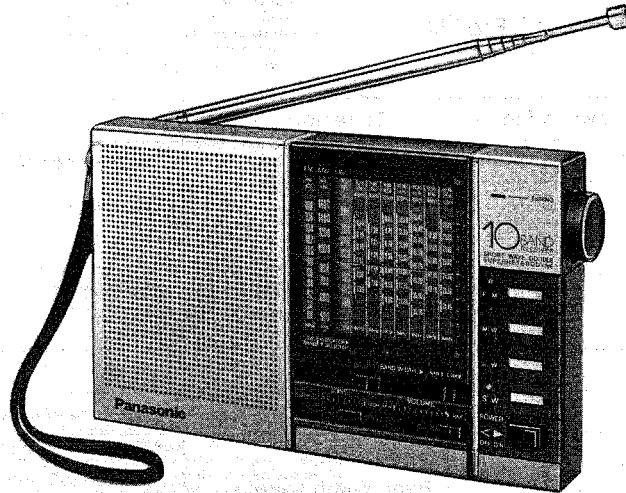


Service Manual

Radio

RF-B50L

FM-MW-LW-SW1~7 10-Band Portable Radio



■ SPECIFICATIONS

Frequency Range:

FM; 87.5~108 MHz
 MW; 520~1610 kHz (577~186 m)
 LW; 150~285 kHz (2000~1060 m)
 SW1; 5.95~6.2 MHz (50.4~48.4 m)
 SW2; 7.1~7.3 MHz (42.3~41.1 m)
 SW3; 9.5~9.8 MHz (31.6~30.6 m)
 SW4; 11.7~12.0 MHz (25.6~25 m)
 SW5; 15.1~15.45 MHz (19.9~19.4 m)
 SW6; 17.7~17.9 MHz (16.9~16.8 m)
 SW7; 21.45~21.75 MHz (14~13.8 m)

Intermediate Frequency:

FM; 10.7 MHz
 AM (MW, LW); 450 kHz
 AM (MW, LW); 462 kHz (for U.K.)
 SW1~7; 1st IF 11.850 MHz
 SW1~7; 2nd IF 450 kHz
 SW1~7; 2nd IF 462 kHz (for U.K.)

Sensitivity:

FM; 5 μ V (-3 dB, Limit Sens)
 MW; 101.5 μ V/m/50 mW output
 LW; 179.7 μ V/m/50 mW output
 SW1; 2.2 μ V/50 mW output
 SW2; 2.5 μ V/50 mW output
 SW3; 1.8 μ V/50 mW output
 SW4; 1.0 μ V/50 mW output
 SW5; 1.0 μ V/50 mW output
 SW6; 1.5 μ V/50 mW output
 SW7; 6.3 μ V/50 mW output

Power Source:

DC 6V (Four "AA" Size Penlight Battery)

Power Output:

(National UM-3 or equivalent)

550 mW...RMS (max)

Speaker:

8 cm (3") PM Dynamic Speaker

Impedance:

Speaker 8 Ω

Earphone/External Speaker

Jack ϕ 3.5 8 Ω

Antenna:

EXT Antenna; FM 75 Ω

LW, SW1~7 High

Impedance

Whip Antenna; FM, SW1~7

Ferrite Core Antenna; MW, LW

Dimensions:

184(W) \times 112(H) \times 33(D) mm

(7 $\frac{1}{4}$ \times 4 $\frac{7}{16}$ \times 1 $\frac{5}{16}$)"

Weight:

500 g (1 lb 1.6 oz) without batteries

Specifications are subject to change without notice.

Panasonic

Matsushita Electric Trading Co., Ltd.
 P.O. Box 288, Central Osaka Japan

LOCATION OF CONTROLS AND COMPONENTS

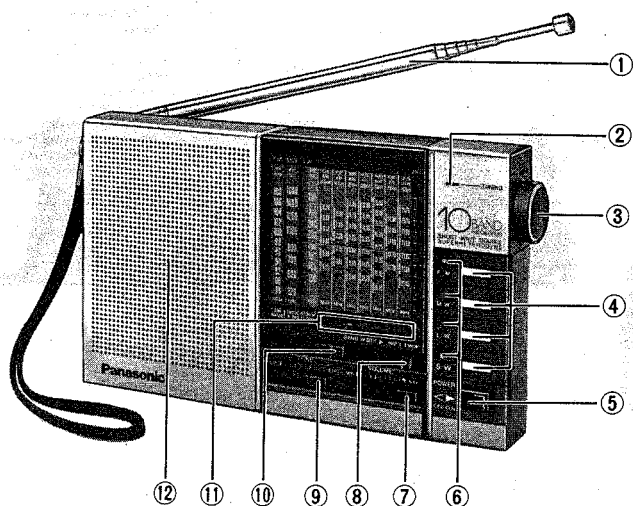


Fig. 1

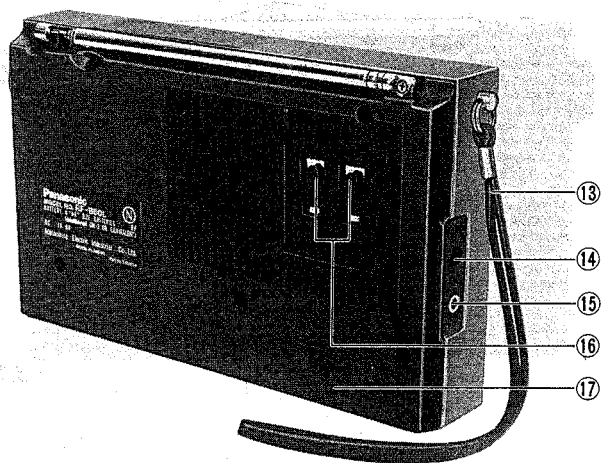


Fig. 2

- ① Telescopic Antenna
- ② Tuning Indicator (TUNING)
- ③ Tuning Control (TUNING)
- ④ Band Switches (FM, MW, LW, SW1~7)
- ⑤ Power Switch (POWER)
- ⑥ Band Indicator
- ⑦ Volume Control (VOLUME)
- ⑧ Band Width Switch (BAND WIDTH) (NAR, WIDE)
- ⑨ Tone Control (TONE)

- ⑩ SW1~7 Band Switch (SELECTOR)
(SW1, SW2, SW3, SW4, SW5, SW6, SW7)
- ⑪ SW1~7 Band Indicators (INDICATOR)
- ⑫ Speaker [8 cm (3") 8Ω]
- ⑬ Hand Strap
- ⑭ External DC Power Jack (DC IN 6V $\ominus \oplus$)
- ⑮ Earphone/External Speaker Jack [8Ω only] $\phi 3.5$
- ⑯ External Antenna/Ground Terminals
- ⑰ Battery Compartment

BLOCK DIAGRAM

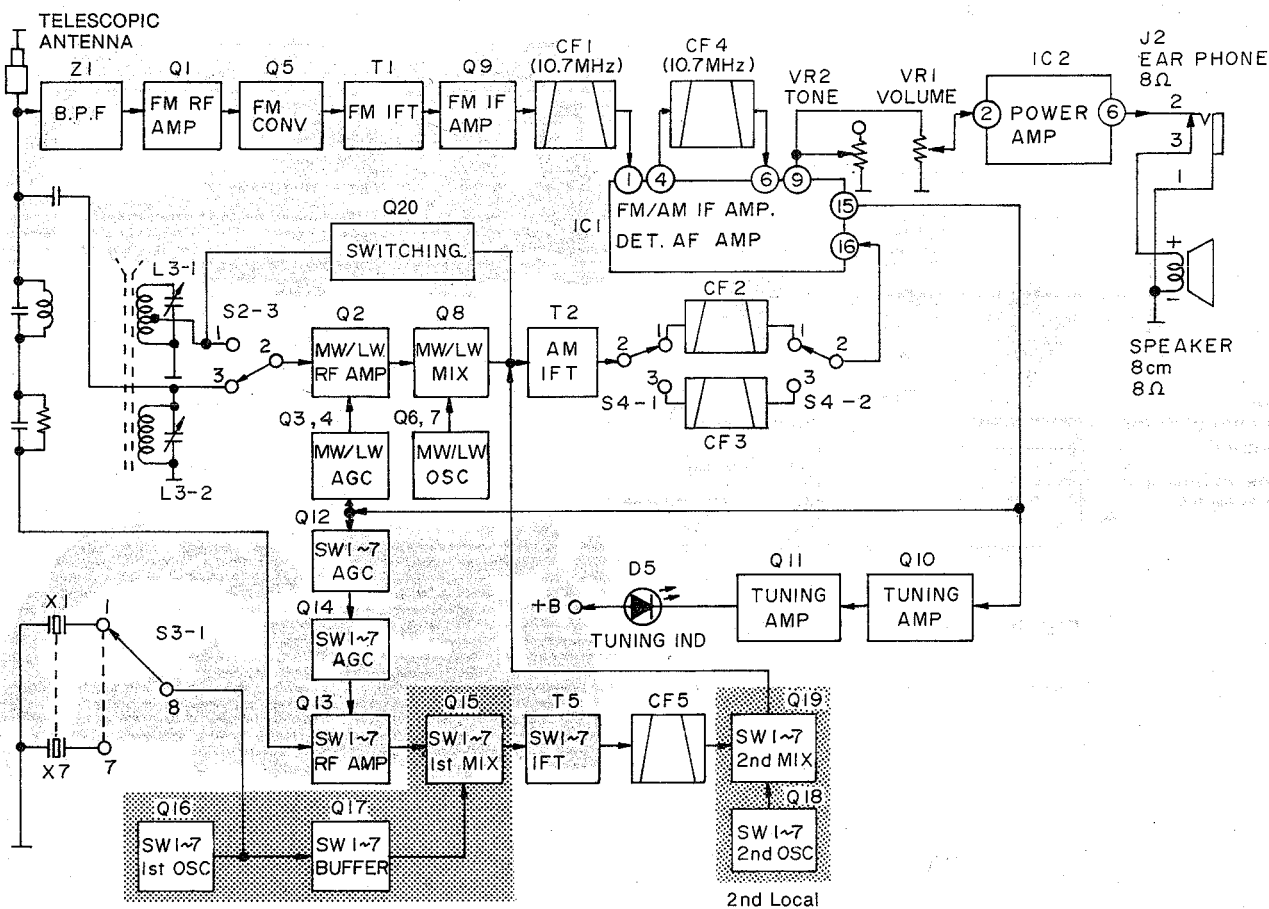


Fig. 3

DISASSEMBLY INSTRUCTIONS

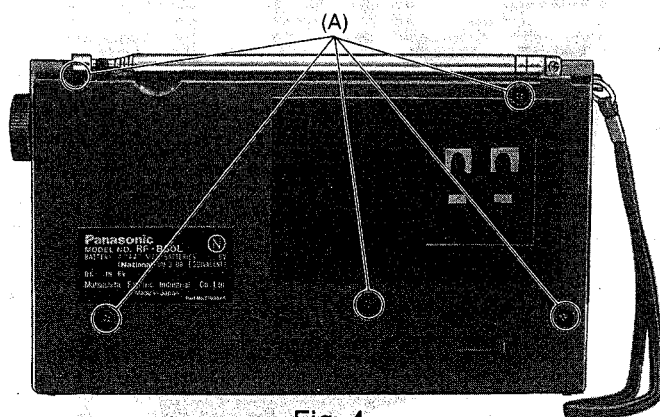


Fig. 4

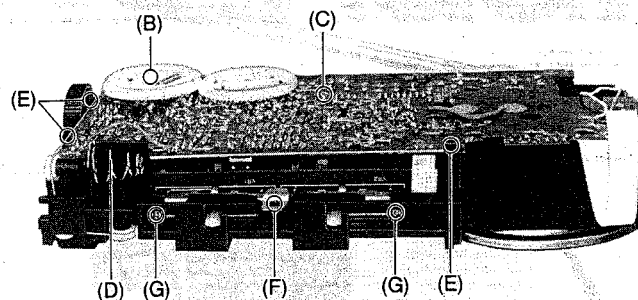


Fig. 5

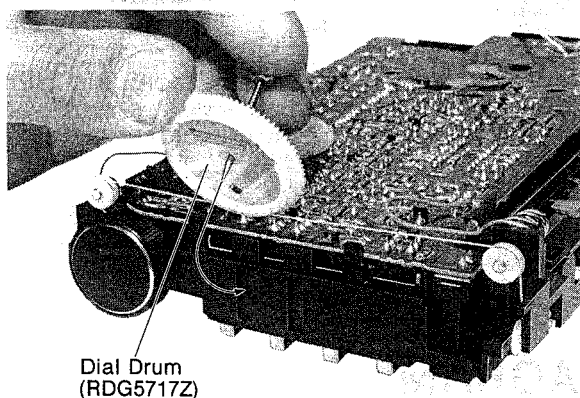


Fig. 6

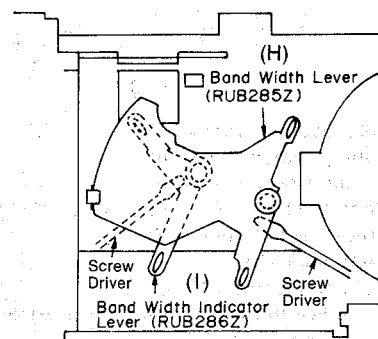


Fig. 7

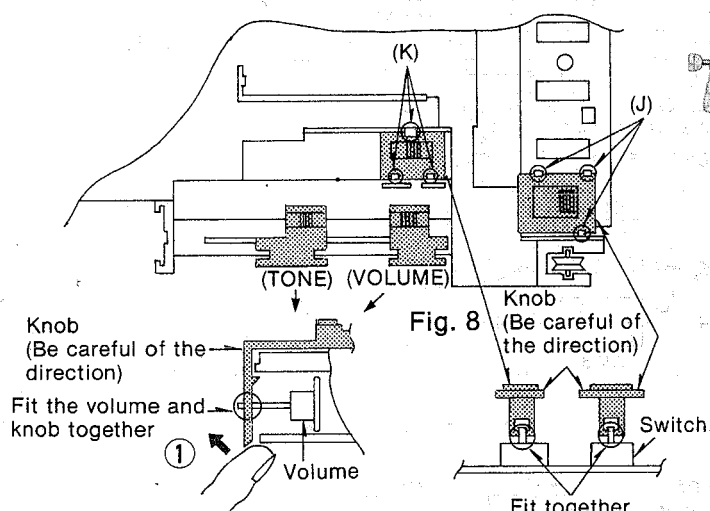


Fig. 9

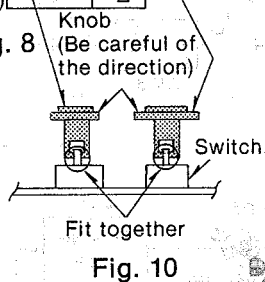


Fig. 10

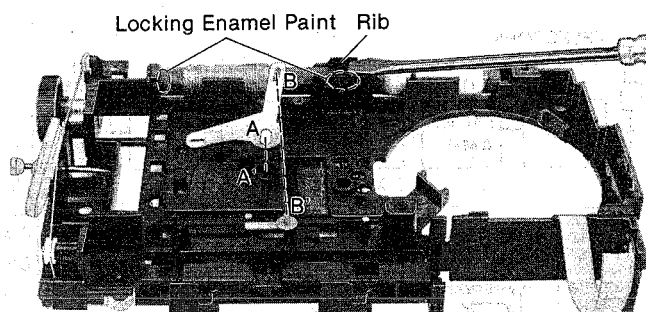


Fig. 11

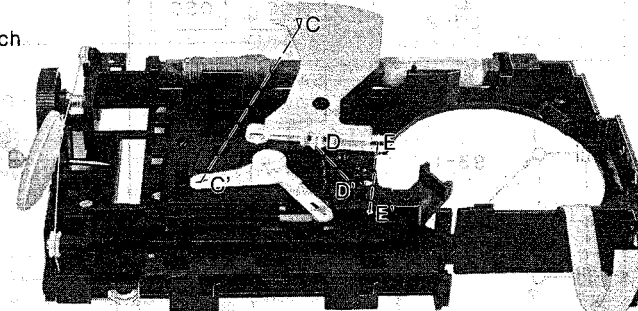


Fig. 12

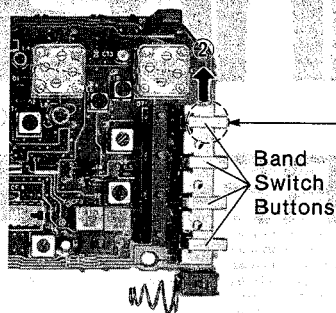


Fig. 13

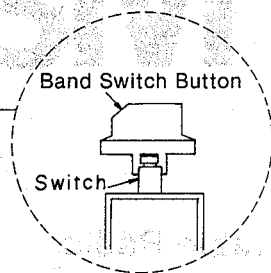


Fig. 14

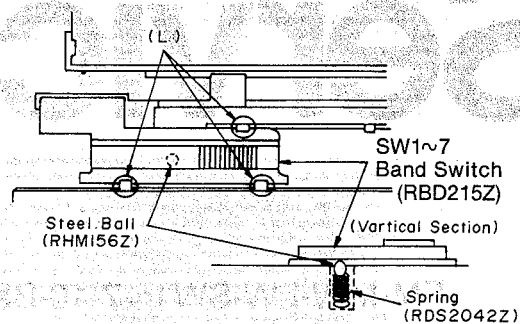


Fig. 15

Ref. No.	Procedure	Shown in Fig. —	To remove —	Remove —
1	1	4	Rear Cabinet	Screw (2.6×12)(A)×5
2	1~7	5	Main Circuit Board and Volume Circuit Board *2	Screw (1.7×3) *1(B)×1
3		5		Screw (2×4)(C)×1
4		5		Battery terminal (—)(D)×1
5		5		Rib(E)×3
6		5		Screw (2×4)(F)×1
7		5		Screw (2×4)(G)×2
8	1~8	7	Band Width Lever *3	To remove the band width lever (RUB285Z), use a screwdriver or similar tool as shown in the figure.....(H)×1
9	1~9	7	Band Wide Indicator Lever *4	To remove the band width indicator lever (RUB286Z), use a screwdriver or similar tool as shown in the figure.(I)×1
10	1~7, 10	11	Bar Antenna	To remove the antenna, undo the chassis tab as shown in the figure, and then remove the locking enamel paint from two places to pull out the antenna.
11	1, 11	8, 10	Power Knob	Rib(J)×3
12	1, 12	8, 10	Band Width Knob	Rib(K)×3
13	1, 13	8, 9	Volume and Tone Knob	Remove the volume and tone knob in the direction of arrow ①.
14	1, 14	15	SW1~7 Band Switch Knob *5	Rib(L)×3
15	1~7, 15	13	Band Switch Buttons *6	Remove the band switch buttons in the direction of arrow ②.

*1 Detach dial drum (RDG5717Z) from the Variable Capacitor and fit it securely into the chassis holes as indicated by the arrow by using a pin, etc. (Fig. 6).

*2 Remove the printed circuit board while detaching the jack terminal hole from the chassis.

*3 During installation, simultaneously fit in A and A', B and B'. (Fig. 11).

*4 During installation, simultaneously fit in C and C', D and D', and E and E'. (Fig. 12).

*5 Remove SW1~7 Band Switch Knob (RBD215Z) by removing 3 ribs of the chassis as shown in Fig. 15. At this time, be careful not to loose the steel ball (RHM156Z) and the spring (RDS2042Z).

*6 Align the tab on the knob with the groove of each band switch, and then insert until it contacts the stopper. (Fig. 14).

DIAL THREADING

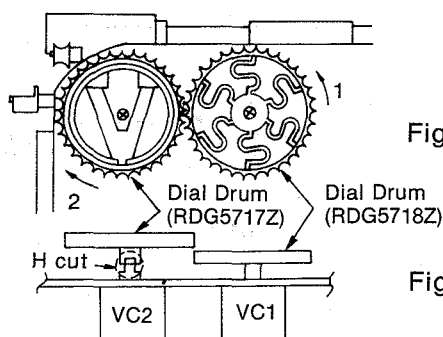


Fig. 16

Fig. 17

• DIAL CORD LENGTH: 60cm (23 $\frac{5}{8}$)"

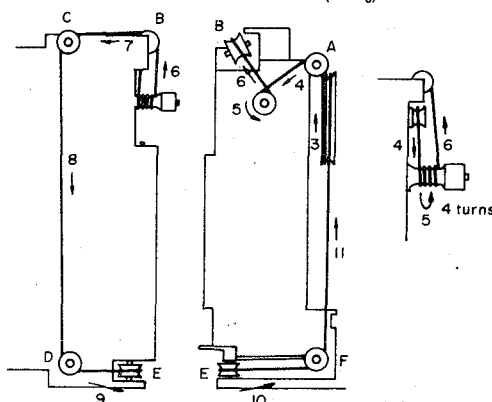


Fig. 18

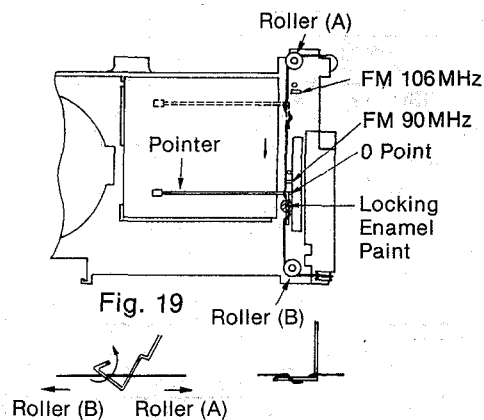
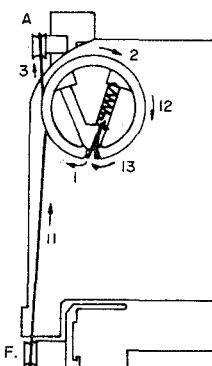


Fig. 20

Fig. 21

- Connect the dial drum (RDG5718Z) to VC1, and then turn it all the way in the direction (counterclockwise) indicated by arrow 1 as shown in Fig. 16.
 - Turn VC2 all the way in the direction (clockwise) indicated by arrow 2, and then mount the dial drum (RDG5717Z) in a position like that shown in Fig. 16.
 - Mesh the VC2 dial drum (RDG5717Z) with the VC1 dial drum (RDG5718Z) by fitting the H cut parts together first. (Fig. 17).
- Wind the dial cord as shown in Fig. 18.
- Attach the dial cord to the roller shaft at rollers C, D and F, and then attach the dial cord to the rollers again to prevent the teeth of the dial drum from being damaged.
 - Turn the tuning shaft counterclockwise.
 - Attach the pointer to the dial cord (Figs. 20 and 21), and then slide it downward to the 0 point as shown in Fig. 19.
 - Secure in place with locking enamel paint.

MEASUREMENTS AND ADJUSTMENTS

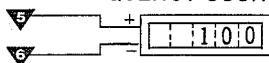
■ ALIGNMENT INSTRUCTION

READ CAREFULLY BEFORE ATTEMPTING ALIGNMENT

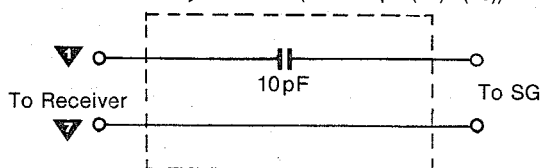
- Set volume control to maximum.
- Set tone control to high.
- Set band switch to LW, MW, SW1~7 or FM.
- Set power switch to ON.
- Set band width switch to wide.
- Set power source voltage to 6V DC.
- Output of signal generator should be no higher than necessary to obtain an output reading.

■ LW, MW, SW1~7 ALIGNMENT

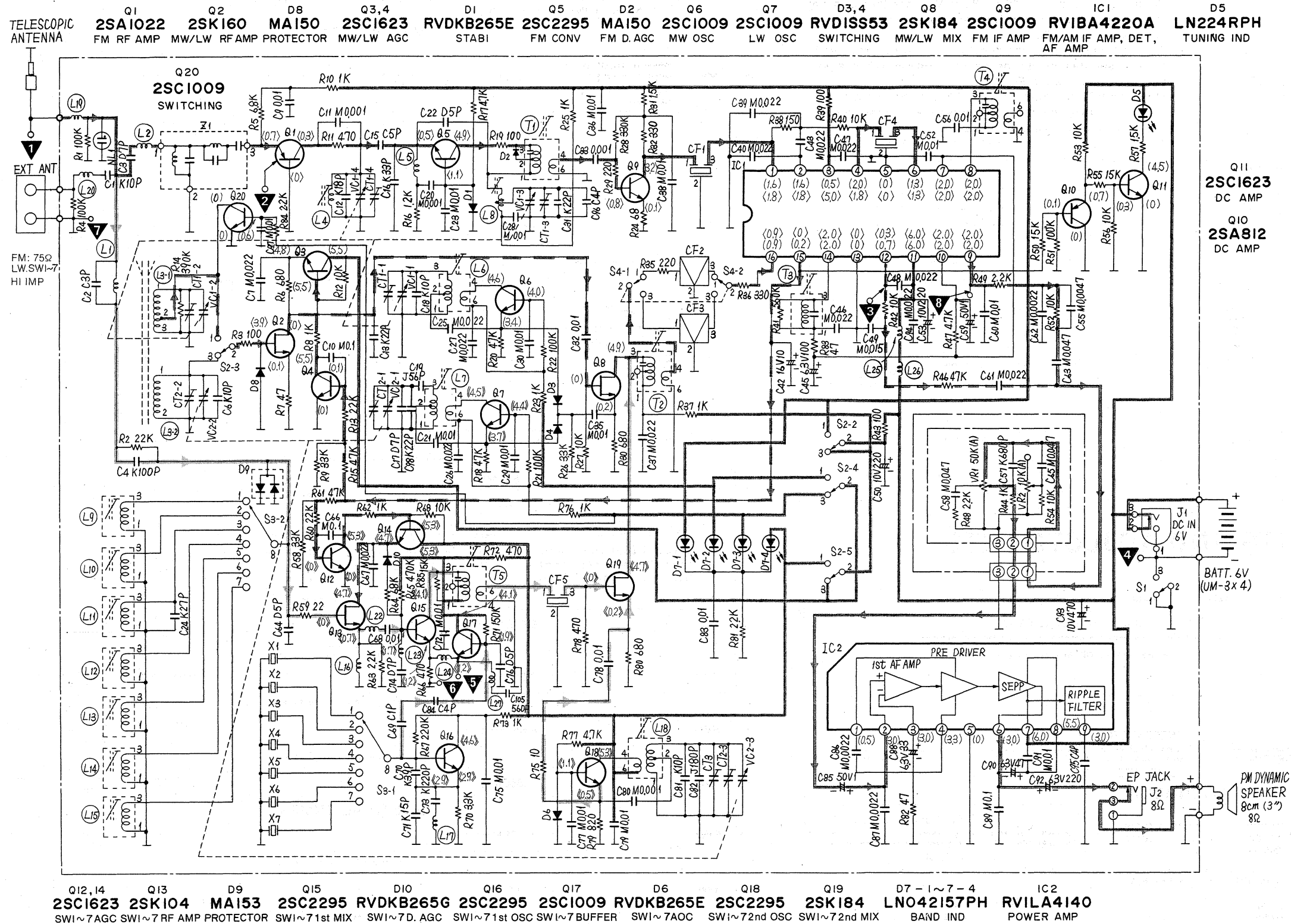
BAND	SIGNAL GENERATOR or SWEEP GENERATOR		RADIO DIAL SETTING	INDICATOR (ELECTRONICS VOLTMETER or SCOPE)	ADJUSTMENT	REMARKS
	CONNECTIONS	FREQUENCY				
AM-IF ALIGNMENT						
(1)	MW	Fashion loop of several turns of wire and radiate signal into loop of receiver.	450kHz 462kHz (for U.K.) 30% Mod. at 400Hz	Point of non-interference. (on/ about 600kHz)	Output meter across voice coil. T2 (AM 1st IFT) T3 (AM 2nd IFT)	Set band width switch to "NAR". Adjust for maximum output.
LW-RF ALIGNMENT						
(2)	LW	"	136kHz	Tuning capacitor fully closed.	"	L7 (LW OSC Coil) Adjust for maximum output.
(3)	LW	"	302kHz	Tuning capacitor fully open.	"	CT2-1 (LW OSC Trimmer) "
(4)	LW	"	150kHz	Tune to signal.	"	(* 1) L3-2 (LW ANT Coil) Adjust for maximum output. Adjust L3-2 by moving coil bobbin along ferrite core.
(5)	LW	"	250kHz	"	"	CT2-2 (LW ANT Trimmer) Adjust for maximum output. Repeat steps (2)~(5).

BAND	SIGNAL GENERATOR or SWEEP GENERATOR		RADIO DIAL SETTING	INDICATOR (ELECTRONICS VOLT-METER or SCOPE)	ADJUSTMENT	REMARKS
	CONNECTIONS	FREQUENCY				
MW-RF ALIGNMENT						
(6)	MW	Fashion loop of several turns of wire and radiate signal into loop of receiver.	511kHz	Tuning capacitor fully closed.	Output meter across voice coil.	L6 (MW OSC Coil) Adjust for maximum output.
(7)	MW	"	1,650kHz	Tuning capacitor fully open.	"	CT1-1 (MW OSC Trimmer) "
(8)	MW	"	550kHz	Tune to signal.	"	(* 1) L3-1 (MW ANT Coil) Adjust for maximum output. Adjust L3-1 by moving coil bobbin along ferrite core.
(9)	MW	"	1,500kHz	"	"	CT1-2 (MW ANT Trimmer) Adjust for maximum output. Repeat steps (6)~(9).
(* 1) Cement antenna bobbin with wax after completing alignment.						
SW1~7 2nd LOCAL OSC ALIGNMENT						
(10)	SW3	Connect to test point ▼ through ceramic capacitor (10pF). Negative side to test point ▼.	10.925MHz	Tuning capacitor fully closed.	"	L18 (SW1~7 OSC Coil) Adjust for maximum output.
(11)	SW3	"	10.475MHz	Tuning capacitor fully open.	"	(* 2) CT3 (SW1~7 OSC Trimmer) Adjust for maximum output. Repeat steps (10) and (11).
(* 2) If the frequency can not adjust "10.475MHz±5kHz" please re-adjust it by CT2-3 (SW1~7 ANT).						
SW1~7 1st IF ALIGNMENT						
(12)	SW4	"	11.850MHz 30% Mod. at 400Hz	Point of non-interference.	Output meter across voice coil.	(* 3) T5 (IFT) Adjust for maximum output.
(* 3) After alignment, please confirm the oscillate frequency of T5 IFT. The reading should be figure below. SW1: 16.775MHz±1.5kHz SW5: 25.975MHz±1.5kHz SW2: 17.900MHz±1.5kHz SW6: 28.500MHz±1.5kHz SW3: 20.350MHz±1.5kHz SW7: 32.300MHz±1.5kHz SW4: 22.550MHz±1.5kHz						
						
SW1-RF ALIGNMENT						
(13)	SW1	"	6.075MHz	Tune to signal.	"	L9 (SW1 ANT Coil) Adjust for maximum output.
SW2-RF ALIGNMENT						
(14)	SW2	"	7.200MHz	"	"	L10 (SW2 ANT Coil) Adjust for maximum output.
SW3-RF ALIGNMENT						
(15)	SW3	"	9.650MHz	"	"	L11 (SW3 ANT Coil) Adjust for maximum output.
SW4-RF ALIGNMENT						
(16)	SW4	"	11.850MHz	"	"	L12 (SW4 ANT Coil) Adjust for maximum output.
SW5-RF ALIGNMENT						
(17)	SW5	"	15.275MHz	"	"	L13 (SW5 ANT Coil) Adjust for maximum output.
SW6-RF ALIGNMENT						
(18)	SW6	"	17.800MHz	"	"	L14 (SW6 ANT Coil) Adjust for maximum output.
SW7-RF ALIGNMENT						
(19)	SW7	"	21.600MHz	"	"	L15 (SW7 ANT Coil) Adjust for maximum output.

SW Dummy Antenna (For Steps (10)~(19))



SCHEMATIC DIAGRAM MODEL RF-B50L

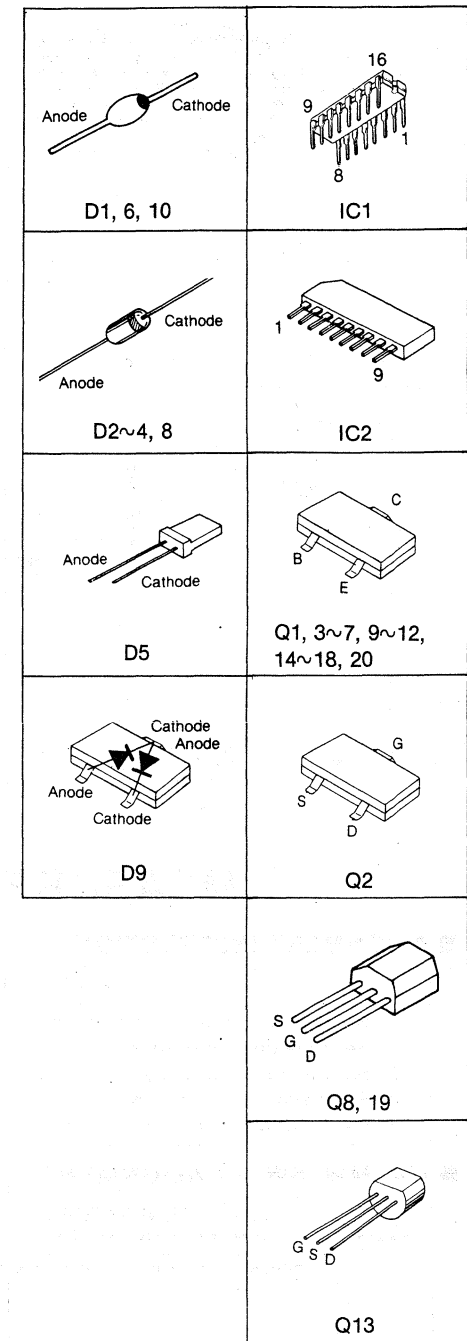
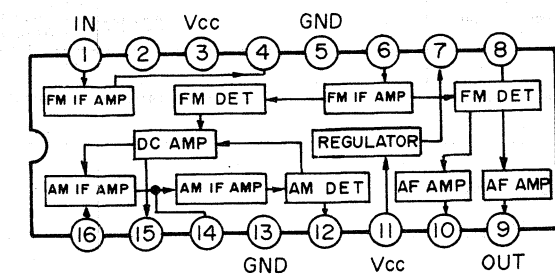


Notes:



- S1: Power switch in "OFF" position. (1...OFF, 3...ON)
- S2-2~S2-5: Band switch. FM switch in "ON" position. (1...ON, 3...OFF)
S2-3, S2-4: MW switch in "OFF" position. (1...ON, 3...OFF)
S2-5: SW1~7 switch in "OFF" position. (1...ON, 3...OFF)
- S3-1, S3-2: SW1~7 Band switch in "SW1" position. (1...SW1, 2...SW2, 3...SW3, 4...SW4, 5...SW5, 6...SW6, 7...SW7)
- S4-1, S4-2: Band width switch in "WIDE" position. (1...WIDE, 3...NAR)
- VR1: Volume control VR.
- VR2: Tone control VR.
- DC voltage measurements are taken with electronics voltmeter based on negative terminal of battery.
< >...FM position, ()...MW position, (())...LW position, << >>...SW1 position.
- Battery Current No signal25mA
Maximum output180mA



IC1 RVIBA4220A



Notes:

1. The circuit shown in  on the conductor indicates printed circuit on the back side of the printed circuit board.
2. The circuit shown in  on the conductor indicates printed circuit on the front side of the printed circuit board.
3. The symbols (●) shown in the circuit board indicate connection points between conductors on the front side and back side of the circuit board.

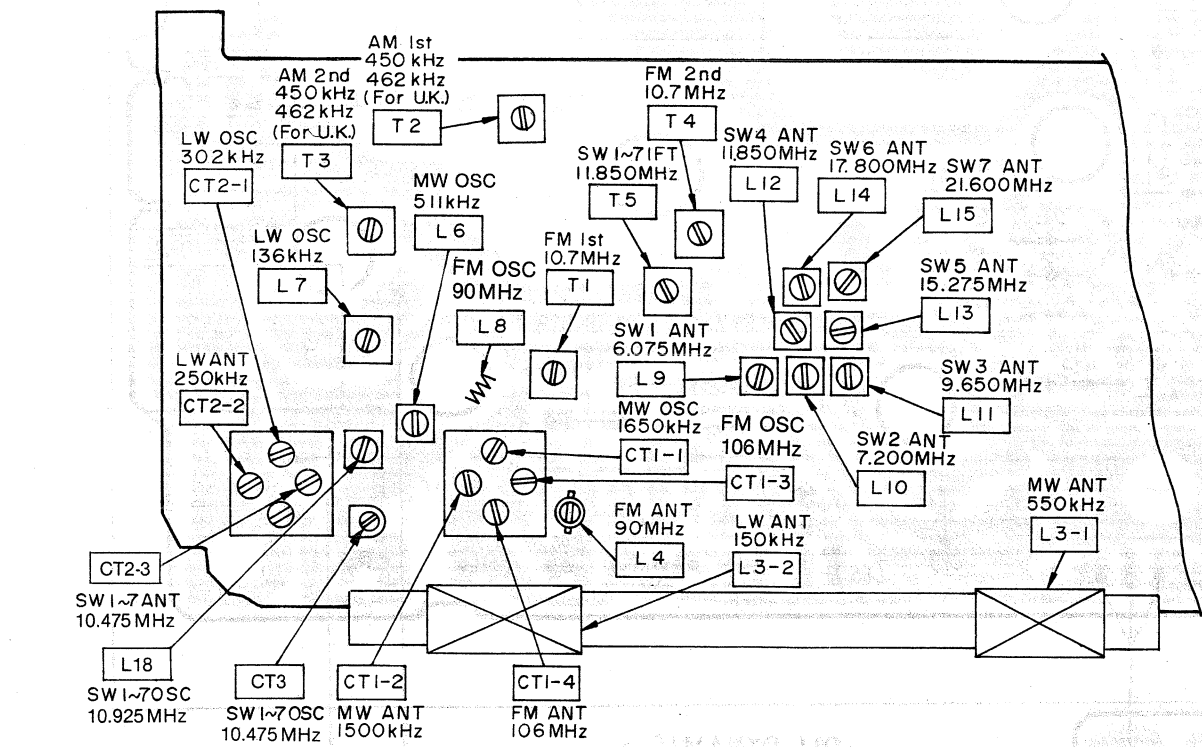
FM ALIGNMENT

BAND	SIGNAL GENERATOR or SWEEP GENERATOR		RADIO DIAL SETTING	INDICATOR (ELECTRONICS VOLTMETER or SCOPE)	ADJUSTMENT	REMARKS
	CONNECTIONS	FREQUENCY				
FM-IF ALIGNMENT						
20) FM	Connect to test point ∇ through 0.001 μ F. Negative side to test point ∇ .	10.7 MHz (SWP.)	Point of non-interference. (on/ about 90 MHz)	Connect vert. amp. of scope to test point ∇ . Negative side to test point ∇ .	T1 (FM 1st IFT)	Adjust for maximum amplitude. (Refer to fig. 23.)
21) FM	"	"	"	"	T4 (FM 2nd IFT)	Adjust for maximum amplitude. (Refer to fig. 24.)
FM-RF ALIGNMENT						
22) FM	Connect to test point ∇ through FM dummy antenna. Negative side to test point ∇ .	90 MHz	90 MHz [Refer to Fig. 19]	Output meter across voice coil.	L8 (FM OSC Coil) L4 (FM ANT Coil)	(*4) Adjust for maximum output.
23) FM	"	106 MHz	106 MHz [Refer to Fig. 19]	"	CT1-3 (FM OSC Trimmer) CT1-4 (FM ANT Trimmer)	(*4) Adjust for maximum output. Repeat steps (22) and (23).
(*4) Three output responses will be present; proper tuning is the center frequency.						

(*4) Three output responses will be present; proper tuning is the center frequency.

ALIGNMENT POINTS

• Please refer to Circuit Board and Wiring Connection Diagram which is located test point.



REPLACEMENT PARTS LIST..... RF-B50L

Notes:

1. Important safety notice.
Components identified by Δ mark have special characteristics important for safety.
When replacing any of these components, use only manufacturer's specified parts.
2. The S mark indicates service standard parts and may differ from production parts.
3. RESISTORS & CAPACITORS
Unless otherwise specified.
All resistors are in OHMS (Ω) K=1000 Ω , M=1000k Ω
All capacitors are in MICRO FARADS (μ F) P= μ F

*Type & Wattage of Resistor

Type

ERC:Solid	ERX:Metal Film	ERW:Wirewound Resistor
ERD:Carbon	ERG:Metal Oxide	ERS:Fusible Resistor
RRD:Chip	ERO:Metal Film	ERF:Cement Resistor

Wattage

10,16:1/8W	14,25:1/4W	12:1/2W	1:1W	2:2W	3:3W
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*Type & Voltage of Capacitor

Type

ECFW:Semi-conductor	ECOD,ECKD,ECBT:Ceramic
ECQS:Styrol	ECQM,ECQV,ECQG:Polyester
ECUX:Chip	ECEA,ECSZ :Electrolytic
ECMS:Mica	ECQP :Polypropylene

Voltage

ECQ Type	ECQV Type	ECSZ Type	Others
1H: 50V	0.5: 50V	OF:3.15V	OJ :6.3V
2A:100V	1:100V	1A:10V	1A :10V
2E:500V	2:200V	1V:35V	1C :16V
2H:500V		OJ:6.3V	1E,25:25V

Ref. No.	Part No.	Part Name & Description	Per Set
INTEGRATED CIRCUITS, TRANSISTORS AND DIODES			
IC1	RVIBA4220A	IC	1
IC2	RVILA4140	IC	1
Q1	2SA1022C	Transistor (Si)	1
Q2	2SK160K5	Transistor (Si)	1
Q3,4,12,14	2SC1623L5A	Transistor (Si)	4
Q5,15,16,18	2SC2295B	Transistor (Si)	4
Q6,7,9,17,20	2SC1009F4	Transistor (Si)	5
Q8,19	2SK184Y	Transistor (Si)	2
Q10	2SA812M5	Transistor (Si)	1
Q11	2SC1623L6A	Transistor (Si)	1
Q13	2SK104F	Transistor (Si)	1
D1,6	RVDKB265E	Diode (Si)	2 S
D2,8	MA161	Diode (Si)	2 S
D3,4	RVD1SS53	Diode (Si)	2
D5	LN224RPH	LED	1
D7	LN042157PH	LED	1
D9	MA153	Diode (Si)	1
D10	RVDKB265G	Diode (Si)	1 S
CRYSTALS			
X1	RVCA16775NRN	Crystal	1
X2	RVCA17900NRN	Crystal	1
X3	RVCA20350NRN	Crystal	1
X4	RVCA22550NRN	Crystal	1
X5	RVCA25975NRN	Crystal	1
X6	RVCA28500NRN	Crystal	1
X7	RVCA32300NRN	Crystal	1
COILS AND TRANSFORMERS			
L3-1,3-2	RLF6D18	Antenna Coil, MW, LW	1
L4	RLO4N120	Antenna Coil, FM	1
L6	RLO2A10	Oscillator Coil, MW	1
L7	RLO1A2	Oscillator Coil, LW	1
L8	RLO4N183	Oscillator Coil, FM	1
L9	RLA3A8	Antenna Coil, SW	1
L10	RLA3A9	Antenna Coil, SW2	1
L11,12	RLA3A11	Antenna Coil, SW3, SW4	2
L13	RLA3A12	Antenna Coil, SW5	1
L14	RLA3A13	Antenna Coil, SW6	1
L15	RLA3A14	Antenna Coil, SW7	1
L16	RLQZB101K	Choke Coil	1
L17	RLQZA8R2K	Choke Coil	1
L18	RLO3A10	Oscillator Coil, SW1~7	1
T1,5	RLI4A8	2nd Local FM 1st IFT, SW1~7	2
T2	RLI2A10	1st IFT AM 1st IFT	1
T3	RLI2A20	AM 2nd IFT	1
T4	RLI4A9	FM 2nd IFT	1
VARIABLE RESISTORS			
VR1	EWALG2C10A54	Variable Resistor, 50k Ω (A)	1
VR2	EWALG0C10A14	Variable Resistor, 10k Ω (A)	1
VARIABLE CAPACITORS			
VC1-1~1-4	RCV4LC4V1N	Tuning Capacitor/with Trimmer Capacitor (CT1-1~1-4) MW, FM	1
VC2-1~2-4	RCV3YC4VN	Tuning Capacitor/with Trimmer Capacitor (CT2-1~2-4) LW, SW1~7	1
CT3	RCVCTZ3130	Trimmer Capacitor	1
CERAMIC FILTERS			
CF1,4	RVF107NAR	Ceramic Filter	2
CF2	RVFSFP455G5	Ceramic Filter	1
CF2	RVFSFP462I	Ceramic Filter (for United Kingdom)	1
CF3	RVFSFP455I	Ceramic Filter	1
CF3	RVFSFP462G5	Ceramic Filter (for United Kingdom)	1
CF5	RVFSFE107SW	Ceramic Filter	1
COMPONENT COMBINATION			
Z1	RXABPWB5	Component Combination	1
SPEAKER			
	EAS8P24S	Speaker, 8cm (3"), 8 Ω PM Dynamic	1
SWITCHES			
S1	RSS2A37Z	Switch, Power	1
S2	RSHX050Z	Switch, Band (FM, MW, LW, SW1~7)	1
S3	RSS7B02Z	Switch, Band (SW1~7)	1
S4	RSS2B36Z	Switch, Band Width	1
JACKS			
J1	RJJ1B1Z	Jack, DC IN	1
J2	RJJ1D3Y	Jack, Earphone	1
CABINET PARTS			
K1	RYMFB50LXG8	Front Cabinet Ass'y	1
K2	RYFFB50LXG	Rear Cabinet Ass'y	1
K2	RYFFB50LXE	Rear Cabinet Ass'y (for United Kingdom)	1
K3	XEARR130GBY	Telescopic Antenna	1
K4	RJT826Z	Terminal, Antenna	1
K5	RHM89Z	Roller	1
K6	RMA5083Z	Plastics Antenna Bracket	1
K7	XUC2FT	Circlip	2 S
K8	RKH96Y	Hand Strap	1
K9	RYNFB50M	Battery Cover Ass'y	1
K10	RBN653Z	Knob, Tuning	1
K11	XTN26+8C	Screw	1
K12	XTN26+12CFZ	Screw	5

